

# SEQUENCE LISTING

<110> Bristol-Myers Suibb Company

<120> Novel Drosophila Tumor Necrosis Factor Class Molecule ("DmTNF") and Variants Thereof

<130> D0016.np

<150> 60/190,816

<151> 2000-03-21

<160> 65

<170> PatentIn version 3.0

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Gly Asn His Thr Glu Leu Gln Glu Lys Ser Ser Asn Glu Ala Thr Ser	225	230	235
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			330				335						340							
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Phe	Gln	Gly	Asp	Thr	Pro	Phe	Leu	Gln	Cys	Leu	Asn	Thr	Val	Pro	Thr					
			345				350						355							
aac	atg	cca	cat	aag	gtg	cac	acc	tgc	cac	acg	agt	ggg	ctg	atc	cac	1758				
Asn	Met	Pro	His	Lys	Val	His	Thr	Cys	His	Thr	Ser	Gly	Leu	Ile	His					
			360				365						375							

ctg gaa cga aac gag agg atc cat ctg aag gac att cac aac gat cgc 1806  
 Leu Glu Arg Asn Glu Arg Ile His Leu Lys Asp Ile His Asn Asp Arg  
                   380                  385                  390

aat gca gtt ctg cgg gag gga aac aac cga agc tac ttt ggc atc ttc 1854  
 Asn Ala Val Leu Arg Glu Gly Asn Asn Arg Ser Tyr Phe Gly Ile Phe  
                   395                  400                  405

aag gtg taaattggag agattatccc cgtcagaag atggaatacc agtttaagct 1910  
 Lys Val

tttgtccccg cgactgctcg tgaatgcgat tcatcgccag cgtgaatcca ttagttcgta 1970

gtacctagtc ttagtcactc caaacctaat ctcaatcgga atcgtgcata ctgcattagt 2030

cagaagacgg aggaaaatca tattttatatt gtatatactc gttcgcactct aaaaagtga 2090

taaaaatata tgtagctatt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aactcgag 2148

<210> 6

<211> 409

<212> PRT

<213> Drosophila melanogaster

<400> 6

Met Thr Ala Glu Thr Leu Lys Pro Phe Ile Thr Pro Thr Ser Ala Asn  
 1                  5                  10                  15

Asp Asp Gly Phe Pro Ala Lys Ala Thr Ser Thr Ala Thr Ala Gln Arg  
                   20                  25                  30

Arg Thr Arg Gln Leu Ile Pro Leu Val Leu Gly Phe Ile Gly Leu Gly  
                   35                  40                  45

Leu Val Val Ala Ile Leu Ala Leu Thr Ile Trp Gln Thr Thr Arg Val  
                   50                  55                  60

Ser His Leu Asp Lys Glu Leu Lys Ser Leu Lys Arg Val Val Asp Asn  
 65                  70                  75                  80

Leu Gln Gln Arg Leu Gly Ile Asn Tyr Leu Asp Glu Phe Asp Glu Phe  
                   85                  90                  95

Gln Lys Glu Tyr Glu Asn Ala Leu Ile Asp Tyr Pro Lys Lys Val Asp  
                   100                  105                  110

Gly Leu Thr Asp Glu Glu Asp Asp Asp Asp Gly Asp Gly Leu Asp Ser  
 115 120 125

Ile Ala Asp Asp Glu Asp Asp Asp Val Ser Tyr Ser Ser Val Asp Asp  
 130 135 140

Val Gly Ala Asp Tyr Glu Asp Tyr Thr Asp Met Leu Asn Lys Leu Asn  
 145 150 155 160

Asn Ala His Thr Gly Thr Thr Pro Thr Ser Glu Thr Thr Ala Glu Gly  
 165 170 175

Glu Gly Glu Thr Asp Ser Ala Ser Ser Ala Ser Asn Asp Asp Asn Val  
 180 185 190

Phe Asp Asp Phe Thr Ser Tyr Asn Ala His Lys Lys Lys Gln Glu Arg  
 195 200 205

Lys Ser Arg Ser Ile Ala Asp Val Arg Asn Glu Glu Gln Asn Ile Gln  
 210 215 220

Gly Asn His Thr Glu Leu Gln Glu Lys Ser Ser Asn Glu Ala Thr Ser  
 225 230 235 240

Lys Glu Ser Pro Ala Pro Leu His His Arg Arg Arg Met His Ser Arg  
 245 250 255

His Arg His Leu Leu Val Arg Lys Ala Arg Ser Glu Asp Ser Arg Pro  
 260 265 270

Ala Ala His Phe His Leu Ser Ser Arg Arg Arg His Gln Gly Ser Met  
 275 280 285

Gly Tyr His Gly Asp Met Tyr Ile Gly Asn Asp Asn Glu Arg Asn Ser  
 290 295 300

Tyr Gln Gly His Phe Gln Thr Arg Asp Gly Val Leu Thr Val Thr Asn  
 305 310 315 320

Thr Gly Leu Tyr Tyr Val Tyr Ala Gln Ile Cys Tyr Asn Asn Ser His  
 325 330 335

Asp Gln Asn Gly Phe Ile Val Phe Gln Gly Asp Thr Pro Phe Leu Gln

340                      345                      350  
 Cys Leu Asn Thr Val Pro Thr Asn Met Pro His Lys Val His Thr Cys  
       355                      360                      365  
 His Thr Ser Gly Leu Ile His Leu Glu Arg Asn Glu Arg Ile His Leu  
       370                      375                      380  
 Lys Asp Ile His Asn Asp Arg Asn Ala Val Leu Arg Glu Gly Asn Asn  
       385                      390                      395                      400  
 Arg Ser Tyr Phe Gly Ile Phe Lys Val  
                                  405

<210> 7  
 <211> 317  
 <212> PRT  
 <213> Drosophila melanogaster  
 <400> 7

Met Arg Arg Ala Ser Arg Asp Tyr Thr Lys Tyr Leu Arg Gly Ser Glu  
 1                      5                      10                      15  
 Glu Met Gly Gly Gly Pro Gly Ala Pro His Glu Gly Pro Leu His Ala  
                          20                      25                      30  
 Pro Pro Pro Pro Ala Pro His Gln Pro Pro Ala Ala Ser Arg Ser Met  
                          35                      40                      45  
 Phe Val Ala Leu Leu Gly Leu Gly Leu Gly Gln Val Val Cys Ser Val  
       50                      55                      60  
 Ala Leu Phe Phe Tyr Phe Arg Ala Gln Met Asp Pro Asn Arg Ile Ser  
       65                      70                      75                      80  
 Glu Asp Gly Thr His Cys Ile Tyr Arg Ile Leu Arg Leu His Glu Asn  
                          85                      90                      95  
 Ala Asp Phe Gln Asp Thr Thr Leu Glu Ser Gln Asp Thr Lys Leu Ile  
                          100                      105                      110  
 Pro Asp Ser Cys Arg Arg Ile Lys Gln Ala Phe Gln Gly Ala Val Gln  
                          115                      120                      125  
 Lys Glu Leu Gln His Ile Val Gly Ser Gln His Ile Arg Ala Glu Lys  
       130                      135                      140  
 Ala Met Val Asp Gly Ser Trp Leu Asp Leu Ala Lys Arg Ser Lys Leu  
       145                      150                      155                      160  
 Glu Ala Gln Pro Phe Ala His Leu Thr Ile Asn Ala Thr Asp Ile Pro

	165		170		175
Ser Gly Ser His Lys Val Ser Leu Ser Ser Trp Tyr His Asp Arg Gly	180		185		190
Trp Ala Lys Ile Ser Asn Met Thr Phe Ser Asn Gly Lys Leu Ile Val	195		200		205
Asn Gln Asp Gly Phe Tyr Tyr Leu Tyr Ala Asn Ile Cys Phe Arg His	210		215		220
His Glu Thr Ser Gly Asp Leu Ala Thr Glu Tyr Leu Gln Leu Met Val	225		230		240
Tyr Val Thr Lys Thr Ser Ile Lys Ile Pro Ser Ser His Thr Leu Met	245		250		255
Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly Asn Ser Glu Phe His Phe	260		265		270
Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys Leu Arg Ser Gly Glu Glu	275		280		285
Ile Ser Ile Glu Val Ser Asn Pro Ser Leu Leu Asp Pro Asp Gln Asp	290		295		300
Ala Thr Tyr Phe Gly Ala Phe Lys Val Arg Asp Ile Asp	305		310		315
<210>	8				
<211>	391				
<212>	PRT				
<213>	Drosophila melanogaster				
<400>	8				
Met Gly Tyr Pro Glu Val Glu Arg Arg Glu Leu Leu Pro Ala Ala Ala	1	5	10		15
Pro Arg Glu Arg Gly Ser Gln Gly Cys Gly Cys Gly Gly Ala Pro Ala		20	25		30
Arg Ala Gly Glu Gly Asn Ser Cys Leu Leu Phe Leu Gly Phe Phe Gly		35	40		45
Leu Ser Leu Ala Leu His Leu Leu Thr Leu Cys Cys Tyr Leu Glu Leu		50	55		60
Arg Ser Glu Leu Arg Arg Glu Arg Gly Ala Glu Ser Arg Leu Gly Gly		65	70		75
Ser Gly Thr Pro Gly Thr Ser Gly Thr Leu Ser Ser Leu Gly Gly Leu		85	90		95
Asp Pro Asp Ser Pro Ile Thr Ser His Leu Gly Gln Pro Ser Pro Lys		100	105		110

Gln	Gln	Pro	Leu	Glu	Pro	Gly	Glu	Ala	Ala	Leu	His	Ser	Asp	Ser	Gln	115	120	125
Asp	Gly	His	Gln	Met	Ala	Leu	Leu	Asn	Phe	Phe	Phe	Pro	Asp	Glu	Lys	130	135	140
Pro	Tyr	Ser	Glu	Glu	Glu	Ser	Arg	Arg	Val	Arg	Arg	Asn	Lys	Arg	Ser	145	150	155
Lys	Ser	Asn	Glu	Gly	Ala	Asp	Gly	Pro	Val	Lys	Asn	Lys	Lys	Lys	Gly	165	170	175
Lys	Lys	Ala	Gly	Pro	Pro	Gly	Pro	Asn	Gly	Pro	Pro	Gly	Pro	Pro	Gly	180	185	190
Pro	Pro	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Ile	Pro	Gly	Ile	Pro	Gly	Ile	195	200	205
Pro	Gly	Thr	Thr	Val	Met	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	210	215	220
Pro	Gln	Gly	Pro	Pro	Gly	Leu	Gln	Gly	Pro	Ser	Gly	Ala	Ala	Asp	Lys	225	230	235
Ala	Gly	Thr	Arg	Glu	Asn	Gln	Pro	Ala	Val	Val	His	Leu	Gln	Gly	Gln	245	250	255
Gly	Ser	Ala	Ile	Gln	Val	Lys	Asn	Asp	Leu	Ser	Gly	Gly	Val	Leu	Asn	260	265	270
Asp	Trp	Ser	Arg	Ile	Thr	Met	Asn	Pro	Lys	Val	Phe	Lys	Leu	His	Pro	275	280	285
Arg	Ser	Gly	Glu	Leu	Glu	Val	Leu	Val	Asp	Gly	Thr	Tyr	Phe	Ile	Tyr	290	295	300
Ser	Gln	Val	Glu	Val	Tyr	Tyr	Ile	Asn	Phe	Thr	Asp	Phe	Ala	Ser	Tyr	305	310	315
Glu	Val	Val	Val	Asp	Glu	Lys	Pro	Phe	Leu	Gln	Cys	Thr	Arg	Ser	Ile	325	330	335
Glu	Thr	Gly	Lys	Thr	Asn	Tyr	Asn	Thr	Cys	Tyr	Thr	Ala	Gly	Val	Cys	340	345	350
Leu	Leu	Lys	Ala	Arg	Gln	Lys	Ile	Ala	Val	Lys	Met	Val	His	Ala	Asp	355	360	365
Ile	Ser	Ile	Asn	Met	Ser	Lys	His	Thr	Thr	Phe	Phe	Gly	Ala	Ile	Arg	370	375	380
Leu	Gly	Glu	Ala	Pro	Ala	Ser										385	390	

<210> 9  
 <211> 391  
 <212> PRT



<213> Mus musculus

<400> 9

Met Gly Tyr Pro Glu Val Glu Arg Arg Glu Pro Leu Pro Ala Ala Ala  
1 5 10 15  
Pro Arg Glu Arg Gly Ser Gln Gly Cys Gly Cys Arg Gly Ala Pro Ala  
20 25 30  
Arg Ala Gly Glu Gly Asn Ser Cys Arg Leu Phe Leu Gly Phe Phe Gly  
35 40 45  
Leu Ser Leu Ala Leu His Leu Leu Thr Leu Cys Cys Tyr Leu Glu Leu  
50 55 60  
Arg Ser Glu Leu Arg Arg Glu Arg Gly Thr Glu Ser Arg Leu Gly Gly  
65 70 75 80  
Pro Gly Ala Pro Gly Thr Ser Gly Thr Leu Ser Ser Pro Gly Ser Leu  
85 90 95  
Asp Pro Val Gly Pro Ile Thr Arg His Leu Gly Gln Pro Ser Phe Gln  
100 105 110  
Gln Gln Pro Leu Glu Pro Gly Glu Asp Pro Leu Pro Pro Asp Ser Gln  
115 120 125  
Asp Arg His Gln Met Ala Leu Leu Asn Phe Phe Phe Pro Asp Glu Lys  
130 135 140  
Ala Tyr Ser Glu Glu Glu Ser Arg Arg Val Arg Arg Asn Lys Arg Ser  
145 150 155 160  
Lys Ser Gly Glu Gly Ala Asp Gly Pro Val Lys Asn Lys Lys Lys Gly  
165 170 175  
Lys Lys Ala Gly Pro Pro Gly Pro Asn Gly Pro Pro Gly Pro Pro Gly  
180 185 190  
Pro Pro Gly Pro Gln Gly Pro Pro Gly Ile Pro Gly Ile Pro Gly Ile  
195 200 205  
Pro Gly Thr Thr Val Met Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly  
210 215 220  
Pro Gln Gly Pro Pro Gly Leu Gln Gly Pro Ser Gly Ala Ala Asp Lys  
225 230 235 240  
Thr Gly Thr Arg Glu Asn Gln Pro Ala Val Val His Leu Gln Gly Gln  
245 250 255  
Gly Ser Ala Ile Gln Val Lys Asn Asp Leu Ser Gly Gly Val Leu Asn  
260 265 270  
Asp Trp Ser Arg Ile Thr Met Asn Pro Lys Val Phe Lys Leu His Pro  
275 280 285

Arg Ser Gly Glu Leu Glu Val Leu Val Asp Gly Thr Tyr Phe Ile Tyr  
 290 295 300

Ser Gln Val Glu Val Tyr Tyr Ile Asn Phe Thr Asp Phe Ala Ser Tyr  
 305 310 315 320

Glu Val Val Val Asp Glu Lys Pro Phe Leu Gln Cys Thr Arg Ser Ile  
 325 330 335

Glu Thr Gly Lys Thr Asn Tyr Asn Thr Cys Tyr Thr Ala Gly Val Cys  
 340 345 350

Leu Leu Lys Ala Arg Gln Lys Ile Ala Val Lys Met Val His Ala Asp  
 355 360 365

Ile Ser Ile Asn Met Ser Lys His Thr Thr Phe Phe Gly Ala Ile Arg  
 370 375 380

Leu Gly Glu Ala Pro Ala Ser  
 385 390

<210> 10  
 <211> 423  
 <212> DNA  
 <213> Drosophila melanogaster

<400> 10  
 tcgcaaaagg tcggtgctgc tgagcaataa aggtattaat ttatgaaatc attgttgctgc 60  
 aaagaaattg atcagaggaa tatgaaaata atcgaatcga gacggcacgt ctaaaagggt 120  
 gatgtacaat attgtaacat tcagtgcata gcgacatcca gtgcagcaag taaattaagc 180  
 gaacaagatg gattccaaag tgggtgcaga tcctagtctcg gcctacgaca aggaaatcgg 240  
 caacaatcta aacaacgatg attcctcatt tctgggcaac ataatccgcg aaatcctgta 300  
 cagtccaatg aacctggccc tcctggccat catctgcttc ctgggtctata aaatcgttcg 360  
 ggatcgccacc gaagtgccat ccgtgggcgt tgcaaagcca tccgaacctg agttacccaa 420  
 aat 423

<210> 11  
 <211> 24  
 <212> DNA  
 <213> Drosophila melanogaster

<400> 11  
 accagaacgg atttatcgtc ttcc 24

<210> 12  
 <211> 18  
 <212> DNA

<213> Drosophila melanogaster

<400> 12

gttggtgggc accgtgtt

18

<210> 13

<211> 19

<212> DNA

<213> Drosophila melanogaster

<400> 13

gaccatccgc ccagcatatc

19

<210> 14

<211> 19

<212> DNA

<213> Drosophila melanogaster

<400> 14

actggtggcg gatgaagtg

19

<210> 15

<211> 193

<212> PRT

<213> Drosophila melanogaster

<400> 15

Met Pro Glu Glu Gly Ser Gly Cys Ser Val Arg Arg Arg Pro Tyr Gly  
1 5 10 15

Cys Val Leu Arg Ala Ala Leu Val Pro Leu Val Ala Gly Leu Val Ile  
20 25 30

Cys Leu Val Val Cys Ile Gln Arg Phe Ala Gln Ala Gln Gln Gln Leu  
35 40 45

Pro Leu Glu Ser Leu Gly Trp Asp Val Ala Glu Leu Gln Leu Asn His  
50 55 60

Thr Gly Pro Gln Gln Asp Pro Arg Leu Tyr Trp Gln Gly Gly Pro Ala  
65 70 75 80

Leu Gly Arg Ser Phe Leu His Gly Pro Glu Leu Asp Lys Gly Gln Leu  
85 90 95

Arg Ile His Arg Asp Gly Ile Tyr Met Val His Ile Gln Val Thr Leu  
100 105 110

Ala Ile Cys Ser Ser Thr Thr Ala Ser Arg His His Pro Thr Thr Leu  
115 120 125

Ala Val Gly Ile Cys Ser Pro Ala Ser Arg Ser Ile Ser Leu Leu Arg  
130 135 140

Leu Ser Phe His Gln Gly Cys Thr Ile Val Ser Gln Arg Leu Thr Pro  
 145 150 155 160

Leu Ala Arg Gly Asp Thr Leu Cys Thr Asn Leu Thr Gly Thr Leu Leu  
 165 170 175

Pro Ser Arg Asn Thr Asp Glu Thr Phe Phe Gly Val Gln Trp Val Arg  
 180 185 190

Pro

<210> 16

<211> 234

<212> PRT

<213> Drosophila melanogaster

<400> 16

Met Asp Pro Gly Leu Gln Gln Ala Leu Asn Gly Met Ala Pro Pro Gly  
 1 5 10 15

Asp Thr Ala Met His Val Pro Ala Gly Ser Val Ala Ser His Leu Gly  
 20 25 30

Thr Thr Ser Arg Ser Tyr Phe Tyr Leu Thr Thr Ala Thr Leu Ala Leu  
 35 40 45

Cys Leu Val Phe Thr Val Ala Thr Ile Met Val Leu Val Val Gln Arg  
 50 55 60

Thr Asp Ser Ile Pro Asn Ser Pro Asp Asn Val Pro Leu Lys Gly Gly  
 65 70 75 80

Asn Cys Ser Glu Asp Leu Leu Cys Ile Leu Lys Arg Ala Pro Phe Lys  
 85 90 95

Lys Ser Trp Ala Tyr Leu Gln Val Ala Lys His Leu Asn Lys Thr Lys  
 100 105 110

Leu Ser Trp Asn Lys Asp Gly Ile Leu His Gly Val Arg Tyr Gln Asp  
 115 120 125

Gly Asn Leu Val Ile Gln Phe Pro Gly Leu Tyr Phe Ile Ile Cys Gln  
 130 135 140

Leu Gln Phe Leu Val Gln Cys Pro Asn Asn Ser Val Asp Leu Lys Leu  
 145 150 155 160

Glu Leu Leu Ile Asn Lys His Ile Lys Lys Gln Ala Leu Val Thr Val  
 165 170 175

Cys Glu Ser Gly Met Gln Thr Lys His Val Tyr Gln Asn Leu Ser Gln  
 180 185 190

Phe Leu Leu Asp Tyr Leu Gln Val Asn Thr Thr Ile Ser Val Asn Val

195	200	205
Asp Thr Phe Gln Tyr Ile Asp Thr Ser Thr Phe Pro Leu Glu Asn Val		
210	215	220
Leu Ser Ile Phe Leu Tyr Ser Asn Ser Asp		
225	230	
<210> 17		
<211> 281		
<212> PRT		
<213> Drosophila melanogaster		
<400> 17		
Met Ala Met Met Glu Val Gln Gly Gly Pro Ser Leu Gly Gln Thr Cys		
1	5	10 15
Val Leu Ile Val Ile Phe Thr Val Leu Leu Gln Ser Leu Cys Val Ala		
	20	25 30
Val Thr Tyr Val Tyr Phe Thr Asn Glu Leu Lys Gln Met Gln Asp Lys		
	35	40 45
Tyr Ser Lys Ser Gly Ile Ala Cys Phe Leu Lys Glu Asp Asp Ser Tyr		
	50	55 60
Trp Asp Pro Asn Asp Glu Glu Ser Met Asn Ser Pro Cys Trp Gln Val		
65	70	75 80
Lys Trp Gln Leu Arg Gln Leu Val Arg Lys Met Ile Leu Arg Thr Ser		
	85	90 95
Glu Glu Thr Ile Ser Thr Val Gln Glu Lys Gln Gln Asn Ile Ser Pro		
	100	105 110
Leu Val Arg Glu Arg Gly Pro Gln Arg Val Ala Ala His Ile Thr Gly		
	115	120 125
Thr Arg Gly Arg Ser Asn Thr Leu Ser Ser Pro Asn Ser Lys Asn Glu		
	130	135 140
Lys Ala Leu Gly Arg Lys Ile Asn Ser Trp Glu Ser Ser Arg Ser Gly		
145	150	155 160
His Ser Phe Leu Ser Asn Leu His Leu Arg Asn Gly Glu Leu Val Ile		
	165	170 175
His Glu Lys Gly Phe Tyr Tyr Ile Tyr Ser Gln Thr Tyr Phe Arg Phe		
	180	185 190
Gln Glu Glu Ile Lys Glu Asn Thr Lys Asn Asp Lys Gln Met Val Gln		
	195	200 205
Tyr Ile Tyr Lys Tyr Thr Ser Tyr Pro Asp Pro Ile Leu Leu Met Lys		
210	215	220

Ser Ala Arg Asn Ser Cys Trp Ser Lys Asp Ala Glu Tyr Gly Leu Tyr  
 225 230 235 240

Ser Ile Tyr Gln Gly Gly Ile Phe Glu Leu Lys Glu Asn Asp Arg Ile  
 245 250 255

Phe Val Ser Val Thr Asn Glu His Leu Ile Asp Met Asp His Glu Ala  
 260 265 270

Ser Phe Phe Gly Ala Phe Leu Val Gly  
 275 280

<210> 18  
 <211> 16  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 18

Leu Thr Val Thr Asn Ala Gly Leu Tyr Tyr Val Tyr Ala Gln Ile Trp  
 1 5 10 15

<210> 19  
 <211> 17  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 19

Leu Thr Val Thr Asn Thr Gly Leu Tyr Tyr Val Tyr Ala Gln Ile Cys  
 1 5 10 15

Tyr

<210> 20  
 <211> 17  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 20

Leu Thr Val Thr Asn Thr Gly Leu Tyr Tyr Val Tyr Ala Gln Ile Cys  
 1 5 10 15

Tyr

<210> 21  
 <211> 36  
 <212> DNA  
 <213> Drosophila melanogaster

<400> 21

cggaaagatc taacgcgtgt atcgcatctg gacaag

36

<210> 22  
 <211> 30  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 22  
 gcctctagaa atttacacct tgaagatgcc 30  
  
 <210> 23  
 <211> 38  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 23  
 gcagcagcgg cgcattctc gcactaacga tctggcag 38  
  
 <210> 24  
 <211> 35  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 24  
 gcagcagtcg accaccttga agatgccaaa gtagc 35  
  
 <210> 25  
 <211> 38  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 25  
 gcagcagcgg cgcattgact gccgagaccc tcaagccg 38  
  
 <210> 26  
 <211> 36  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 26  
 gcagcagtcg actacgccat cgcgcgtttg aaagtg 36  
  
 <210> 27  
 <211> 38  
 <212> DNA  
 <213> *Drosophila melanogaster*  
  
 <400> 27  
 gcagcagcgg cgcattctc gcactaacga tctggcag 38  
  
 <210> 28  
 <211> 35  
 <212> DNA

<213> Drosophila melanogaster

<400> 28

gcagcagtcg accaccttga agatgccaaa gtagc

35

<210> 29

<211> 38

<212> DNA

<213> Drosophila melanogaster

<400> 29

gcagcagcgg ccgcatgact gccgagaccc tcaagccg

38

<210> 30

<211> 36

<212> DNA

<213> Drosophila melanogaster

<400> 30

gcagcagtcg acgacgccat cgcgcgtttg aaagtg

36

<210> 31

<211> 38

<212> DNA

<213> Drosophila melanogaster

<400> 31

gcagcagcgg ccgcattctc gcactaacga tctggcag

38

<210> 32

<211> 35

<212> DNA

<213> Drosophila melanogaster

<400> 32

gcagcagtcg accaccttga agatgccaaa gtagc

35

<210> 33

<211> 38

<212> DNA

<213> Drosophila melanogaster

<400> 33

gcagcagcgg ccgcatgact gccgagaccc tcaagccg

38

<210> 34

<211> 37

<212> DNA

<213> Drosophila melanogaster

<400> 34



gcagcagtcg accaagacgc catcgcgcggt ttgaaag

37

<210> 35  
<211> 14  
<212> PRT  
<213> Drosophila melanogaster

<400> 35

Gln Asn Ile Gln Gly Asn His Thr Glu Leu Gln Glu Lys Ser  
1 5 10

<210> 36  
<211> 14  
<212> PRT  
<213> Drosophila melanogaster

<400> 36

Leu Arg Glu Gly Asn Asn Arg Ser Tyr Phe Gly Ile Phe Lys  
1 5 10

<210> 37  
<211> 12  
<212> PRT  
<213> Drosophila melanogaster

<400> 37

Met Thr Ala Glu Thr Leu Lys Pro Phe Ile Thr Pro  
1 5 10

<210> 38  
<211> 13  
<212> PRT  
<213> Drosophila melanogaster

<400> 38

Leu Thr Ile Trp Gln Thr Thr Arg Val Ser His Leu Asp  
1 5 10

<210> 39  
<211> 13  
<212> PRT  
<213> Drosophila melanogaster

<400> 39

Asp Lys Glu Leu Lys Ser Leu Lys Arg Val Val Asp Asn  
1 5 10

<210> 40  
<211> 13  
<212> PRT  
<213> Drosophila melanogaster

<400> 40

Ala His Phe His Leu Ser Ser Arg Arg Arg His Gln Glu  
1 5 10

<210> 41

<211> 13

<212> PRT

<213> Drosophila melanogaster

<400> 41

His Phe His Leu Ser Ser Arg Arg Arg His Gln Glu Ser  
1 5 10

<210> 42

<211> 20

<212> PRT

<213> Drosophila melanogaster

<400> 42

His Leu Ser Ser Arg Arg Arg His Gln Glu Ser Met Gly Tyr His Gly  
1 5 10 15

Asp Met Tyr Tyr  
20

<210> 43

<211> 18

<212> PRT

<213> Drosophila melanogaster

<400> 43

Leu Ser Ser Arg Arg Arg His Gln Glu Ser Met Gly Tyr His Gly Asp  
1 5 10 15

Met Tyr

<210> 44

<211> 14

<212> PRT

<213> Drosophila melanogaster

<400> 44

Gln Asn Ile Gln Gly Asn His Thr Glu Leu Gln Glu Lys Ser  
1 5 10

<210> 45

<211> 14

<212> PRT

<213> Drosophila melanogaster

<400> 45

Ala Gln Ile Cys Tyr Asn Asn Ser His Asp Gln Asn Gly Phe  
1 5 10

<210> 46

<211> 14

<212> PRT

<213> Drosophila melanogaster

<400> 46

Leu Arg Glu Gly Asn Asn Arg Ser Tyr Phe Gly Ile Phe Lys  
1 5 10

<210> 47

<211> 12

<212> PRT

<213> Drosophila melanogaster

<400> 47

Met Thr Ala Glu Thr Leu Lys Pro Phe Ile Thr Pro  
1 5 10

<210> 48

<211> 13

<212> PRT

<213> Drosophila melanogaster

<400> 48

Leu Thr Ile Trp Gln Thr Thr Arg Val Ser His Leu Asp  
1 5 10

<210> 49

<211> 13

<212> PRT

<213> Drosophila melanogaster

<400> 49

Asp Lys Glu Leu Lys Ser Leu Lys Arg Val Val Asp Asn  
1 5 10

<210> 50

<211> 13

<212> PRT

<213> Drosophila melanogaster

<400> 50

Ser Ser Asn Glu Ala Thr Ser Lys Glu Arg Met His Ser  
1 5 10

<210> 51

<211> 13

<212> PRT  
 <213> Drosophila melanogaster

<400> 51

Gly Glu Ser Leu Leu Ser Ala Arg Ser Glu Asp Ser Arg  
 1 5 10

<210> 52  
 <211> 13  
 <212> PRT  
 <213> Drosophila melanogaster

<400> 52

Ala His Phe His Leu Ser Ser Arg Arg Arg His Gln Gly  
 1 5 10

<210> 53  
 <211> 13  
 <212> PRT  
 <213> Drosophila melanogaster

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His Phe His Leu Ser Ser Arg Arg Arg His Gln Gly Ser  
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Tyr Ala Gln Ile Cys Tyr Asn Asn Ser His Asp  
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Ser Ser Asn Glu Ala Thr Ser Lys Glu Ser Pro Ala Pro  
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His Phe His Leu Ser Ser Arg Arg Arg His Gln Gly Ser  
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Asp Tyr Lys Asp Asp Asp Asp Lys  
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